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## (54) PHOSPHORUS MODIFIED ALUMINA AND PRODUCTION THEREOF

### (57)Abstract:

PURPOSE: To obtain alumina modified with phosphorus, having excellent heat resistance and high surface area, by blending an aluminum alkoxide with a phosphoric acid in a specific range, heating in a glycol solvent and then burning.

CONSTITUTION: An aluminum alkoxide is blended with a phosphoric acid in an atomic ratio (Al/P) of aluminum atom to phosphorus atom of 5-200, heated in a glycol solvent and burnt at  $\geq 1,000^{\circ}\text{C}$ . An aluminum alkoxide is used as an alumina source. When the aluminum alkoxide is shown by  $\text{Al}(\text{OR})_3$  (R is alkyl), an aluminum alkoxide having  $\leq 6\text{C}$  alkyl group is preferably used. Especially aluminum isopropoxide is preferable. A phosphoric acid is used as a phosphorus source and phosphoric acid or a phosphoric ester is preferably used. Especially 1,4-butanediol is preferably used as the glycol.

## LEGAL STATUS

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